

Title (en)
INHIBITOR OF COLLAGEN-STIMULATED PLATELET AGGREGATION.

Title (de)
EIN INHIBITOR DER COLLAGENSTIMULIERTEN PLÄTTCHENAGGREGATION.

Title (fr)
INHIBITEUR DE L'AGREGATION PLAQUETTAIRE STIMULEE PAR LE COLLAGENE.

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Application
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Abstract (en)
[origin: US5710131A] PCT No. PCT/EP94/02087 Sec. 371 Date Feb. 28, 1995 Sec. 102(e) Date Feb. 28, 1995 PCT Filed Jun. 28, 1994 PCT Pub. No. WO95/01375 PCT Pub. Date Jan. 12, 1995A protein isolated from crude extracts of Hirudo medicinalis is disclosed, which strongly inhibits the binding to collagen of platelets and their subsequent activation, which leads to platelet aggregation and thrombus formation. Additionally the protein prevents binding of von Willebrand factor to collagen. Described is a method for isolation and purification of the protein as well as its use for blocking collagen-stimulated platelet aggregation. The new protein (Brandinin) has a molweight of approximately 15 kD, binds to collagen but has no collagen-cleaving activity. The protein is useful in the prophylaxis, prevention and treatment of thrombotic diseases and for coating of blood-contacting materials, rendering them thromboresistant.

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